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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,435	i	09/18/2003	Ralf-Michael Franke	FRANKE-2	4478
20151	7590	08/13/2004		EXAMINER	
HENRY M FEIEREISEN, LLC 350 FIFTH AVENUE				CHERVINSKY, BORIS LEO	
SUITE 4714	-			ART UNIT PAPER NUMBER ·	
NEW YORK	K, NY 10	10118 2835			
				DATE MAILED: 08/13/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/664,435	FRANKE, RALF-MICHAEL			
	Office Action Summary	Examiner	Art Unit			
		Boris L. Chervinsky	2835			
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the c	orrespondence address	4		
A SH THE - Exte after - If the - If NC - Failu	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period of the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. & 133).			
earn	ed patent term adjustment. See 37 CFR 1.704(b).	g date of this communication, even if timely lieu	, may reduce any			
Status						
1)🖾	• • • • • • • • • • • • • • • • • • • •	<u>eptember 2003</u> .		: • •		
2a)□	This action is FINAL . 2b)⊠ This	action is non-final.		•		
3)□	Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	•		
Disposit	ion of Claims			٠		
4) 🛛	Claim(s) <u>1-10</u> is/are pending in the application.		•			
	4a) Of the above claim(s) is/are withdray					
	Claim(s) is/are allowed.					
I	Claim(s) 1-4 is/are rejected.					
1	Claim(s) <u>5-10</u> is/are objected to.		•	•		
8)□	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	ion Papers			- 4.5		
	•			:		
	The specification is objected to by the Examine					
	The drawing(s) filed on 18 September 2003 is/a		•	•		
	Applicant may not request that any objection to the			•		
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex			. :		
''/	The ball of declaration is objected to by the Ex	laminer. Note the attached Office	Action of form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
12)🛛	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
1 -	☑ All b)☐ Some * c)☐ None of:		() ()			
	1. Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents	s have been received in Application	on No			
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* S	See the attached detailed Office action for a list	of the certified copies not receive	d.	÷		
			•			
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summary				
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	ite atent Application (PTO-152)			
	r No(s)/Mail Date	6) Other:				
U.S. Patent and To						
PTOL-326 (R	ev. 1-U4) Office Ac	tion Summary Pa	rt of Paper No./Mail Date 20040811	l · .		

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the screw connection must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/664,435 Page 3

Art Unit: 2835

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ali et al.

Ali discloses a power component assembly 100 for mechatronic integration of power components comprising: a circuit board 130, a power component 110 arranged on the circuit board; at least one cooling element 160 for dissipating heat generated by the power component, and a pressure-mounting frame 140 connected with the at least one cooling element 160 and holding the power component in heat-conductive contact with the cooling element 160; the pressure-mounting frame 140 and the at least one cooling element 160 are in locking engagement with each other; the pressure-mounting frame 140 and the at least one cooling element 160 are connected with each other by a screw connection 142, 162. Ali discloses the claimed invention except a plurality of components and cooling elements and the cooling elements being galvanically isolated from each other. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have more than one component and more than one cooling elements, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8. It would have been obvious to one having ordinary skill in the art at the

Art Unit: 2835

time the invention was made to use galvanic isolation between elements as needed since it is well known and widely used method of isolation of metallic parts and it has not been considered demonstrated as critical therefore obvious.

Allowable Subject Matter

4. Claims 5-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to disclose the support strip being mechanically connected with the circuit board.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Boris L. Chervinsky whose telephone number is 571-272-2039. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on 571-272-2800 ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Application/Control Number: 10/664,435

Art Unit: 2835

Page 5

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BORIS CHERVINSKY PRIMARY EXAMINER Kon's b. Cur.